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As a necessary result of the destruction of the coyote man will have to face the problem of accounting for the thousands of ground squirrels which the animals destroy each year, as Dixon clearly points out. Control measures breed control measures. Control in one direction throws nature out of balance and often gives rise to troublesome consequences which must be dealt with through additional control measures.

The case has recently been well stated by two British authorities. Watt (Journ. Ecol., vol. 7, Nov. 1919, pp. 201-202) cited herbivorous animals as a chief cause of failure of natural regeneration of the oak in Britain. As a result of the reduction in numbers of carnivorous animals there has been a general increase in rabbits, mice, moles, and certain birds. "Man by upsetting the balance of nature, and assuming control of what directly affected his own interests, is now paying the penalty in other ways, and must, having killed or suppressed the controllers, either assume total control himself or assist in such by a judicious encouragement of those animals he once considered his inveterate foes." The same point is made by Lankester, quoted by Watt, ". . . civilized man has proceeded so far in his interference with extra-human nature, has produced for himself and the living organisms associated with him such a special state of things by his rebellion against natural selection and his defiance of Nature's pre-human dispositions, that he must either go on and acquire firmer control of the conditions or perish miserably by the vengeance certain to fall on the half-hearted meddler in great affairs. We may indeed compare civilized man to a successful rebel against Nature who by every step forward renders himself liable to greater and greater penalties, and so cannot afford to pause or fail in one single step." (Kingdom of Man, 1911, pp. 31-32).

—Walter P. Taylor.

Pohle, Hermann. DIE UNTERFAMILIE DER LUTRINAE. (EINE SYSTEMATISCH-TIERGEOGRAPHISCHE STUDIE AN DEM MATERIAL DER BERLINER MUSEEN.) Archiv f. Naturg., 85 Jahrg. (1919), Abt. A, 9 Heft, pp. 1-247; 19 text figs., 10 plates. November, 1920.

The recent and fossil otters of the world are treated in this extensive monograph. An examination of the systematic part (pp. 1-174) leads one to believe that the material available to the author in many groups hardly justified so pretentious a work. But he has drawn liberally upon the literature of the group and has compiled tables of measurements, lists of localities, and descriptions of specimens from many sources. Seven new forms are described: *Lutra brunnea*, Pontianak, Borneo; *L. maculicollis kivuana*, Kissenje, Lake Kivu, German East Africa; *L. tenuis*, Lake Mohasi, German East Africa; *L. intermedia*, Sumatra; *L. lutra ceylonica*, Nuwara, Ceylon; *Amblyonyx cinerea fulvus*, Lao Key, Tonkin, Indo-China; and *Aonyx microdon*, Dorf Bomse, Kamerun, Africa.

The name *Latax lutris gracilis* Bechstein, 1800, is revived, erroneously, to replace *Latax lutris nereis* Merriam, 1904. Bechstein's name was based upon the "slender otter" of Pennant, described from "Staten-Land." Dr. Leonhard Stejneger has called the reviewer's attention to the fact that the Staten-Land of Pennant is without doubt the most southern island of the Kurile group, north of Japan; so named by its discoverer, de Vries, a Dutch navigator, in 1643. The name *gracilis* for a sea-otter is thus a synonym of *lutris*. In this connection it

might be well to call attention to the fact that the proper generic name for the sea-otters is *Enhydra* Fleming, 1822.

The latter half of the paper includes chapters on the morphology of the skull, the history and distribution of the groups, a synopsis of the classification of otters, and a rather extensive list of titles.

—N. Hollister.

AKELEY, CARL E. Elephants. *World's Work*, vol. 41, pp. 73-92; 19 figs. November, 1920.

——— The autobiography of a taxidermist. *World's Work*, vol. 41, pp. 177-195; 24 figs. December, 1920.

——— My acquaintance with lions. *World's Work*, vol. 41, pp. 277-288; 9 figs. January, 1921.

——— Hand to hand with a leopard and some experiences with rhinos. *World's Work*, vol. 41, pp. 393-402; 8 figs. February, 1921.

——— Hunting the African buffalo. *World's Work*, vol. 41, pp. 497-504; 8 figs. March, 1921.

——— Bill my Kikuyu gun-bearer, and some of our adventures together in East Africa. *World's Work*, vol. 41, pp. 594-607; 18 figs. April, 1921.

AMES, H. T. Wolves and foxes plentiful. *Wisconsin Conservationist*, vol. 3, no. 1, pp. 15-16. March, 1921. (Claims increase in numbers of foxes, coyotes, and wolves in Wisconsin.)

ANTHONY, H. E. New mammals from Jamaica. *Bull. Amer. Mus. Nat. Hist.*, vol. 42, pp. 469-475; 1 plate and 4 figs. December 11, 1920. (New genera and species of fossil rodents: *Clidomys osborni*, *C. parvus*, *Spirodontomys jamaicensis*, *Speoxenus cundalli*, and *Alterodon major*.)

BARBER, W. E. The blood-stained trail of the white-tailed deer in Wisconsin. *Wisconsin Conservationist*, vol. 3, no. 1, pp. 1, 2. March, 1921. (A plea for continuation of the "one buck law" in Wisconsin.)

CABRERA, ANGEL. El primer okapi vivo en Europa. *Bol. Real Soc. española Hist. nat.*, vol. 19, pp. 443-445, 1 fig. October, 1919.

——— Dos ejemplares de "Ziphys" de las costas mediterráneas de España. *Bol. Real Soc. española Hist. nat.*, vol. 19, pp. 468-470. December, 1919.

——— Dos nuevos murciélagos frugívoros. *Bol. Real Soc. española Hist. nat.*, vol. 20, pp. 106-108. March, 1920. (New: *Roussettus* [*Lissonycteris*] *crypticola*, from Fernando Po; and *Dobsonia remota*, from New Guinea.)

——— Dos nuevas ratas de la isla de Borneo. *Bol. Real Soc. española Hist. nat.*, vol. 20, pp. 211-213. July, 1920. (New: *Rattus melinogaster*, from Bongon, northern Borneo; and *R. trachynotus*, from Kina Balu.)

COOPER, A. R. Trematoda and Cestoda. *Rep. Canadian Arctic Exped.* 1913-18, vol. 9, part G-H, pp. 1-27, 2 plates. Ottawa, February 4, 1921. (Trematodes and cestodes collected in *Phoca*, *Erignathus*, and *Canis*.)

DEPÉRET, CH., AND F. ROMAN. Le Felsinotherium serresi des sables pliocènes de Montpellier et les rameaux phylétiques des Siréniens fossiles de l'ancien monde. *Archiv. Mus. d'Hist. Nat. de Lyon*, vol. 12, Mémoire 4, pp. 1-56; pls. 1-7. 1920.

- EKBLAW, W. ELMER. The ecological relations of the Polar Eskimo. Ecology, vol. 2, pp. 132-144. April, 1921. (Brief mention of mammals of Smith Sound, Greenland, and of their uses to the natives.)
- EVERMANN, BARTON WARREN, AND HOWARD WALTON CLARK. Lake Maxinkuckee. A physical and biological survey. Pub. by Dept. of Conservation, Indiana. Vol. 1, pp. 1-660; vol. 2, pp. 1-512; numerous illustrations. (The list of mammals, pp. 452-480 of volume 1, includes 30 species. Many notes on distribution and habits.)
- FIGGINS, J. D. A museum that photographs Nature. Municipal Facts, Denver, vol. 4, no. 4-5, pp. 9-13. April-May, 1921. (An account of the Colorado Museum of Natural History, with numerous figures of mounted groups.)
- FISHER, A. K. The house cat. Outers' Recreation, vol. 64, no. 2, p. 84. February, 1921. (Account of destructive habits.)
- GILLESPIE, T. H. Annual report of the Zoological Society of Scotland for the year ending 31st March, 1920. Pp. 1-20. 1920.
- GREGORY, W. K. On the structure and relations of *Notharctus*, an American Eocene primate. Mem. Amer. Mus. Nat. Hist., n. s., vol. 3, pt. 2, pp. 49-243, pls. 23-59. September, 1920.
- GUYER, M. F., AND E. A. SMITH. Studies on cytolytins. II. Transmission of induced eye defects. Journ. Exper. Zool., vol. 31, pp. 171-215; plates 1-4. August 20, 1920. (Account of the transmission through successive generations of eye defects in rabbits originally induced by means of lens-sensitized fowl serum.)
- HAUSMAN, LEON AUGUSTUS. Hair coloration in animals. Scient. Monthly, vol. 11, pp. 215-222. March, 1921.
- HINTON, MARTIN A. C. Some new African mammals. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 368-373. April, 1921. (New: *Lutra maculicollis mutandæ* from British Ruanda; *Uranomys woodi*, Cholo, Nyasaland; *U. tenebrosus*, N'sana, Nyasaland; and *Cryptomys blainei*, Chisongwe, Luando River, Angola. The latter name is doubtless invalidated by one of Pohle's names, published in November, 1920, as noted above.)
- HOLLISTER, N. The names for two genera of African Artiodactyla. Proc. Biol. Soc. Washington, vol. 34, p. 77. March 31, 1921. (The bush pigs now called *Potamocharus* should be known by the name *Koitiopotamus* Gray, 1843; and the correct name for the hartebeests is *Alcelaphus* Blainville, 1816.)
- HOLLOWAY, E. Cheetahs on the Uganda railway. Journ. East Africa and Uganda Nat. Hist. Soc., no. 16, pp. 58-59. February, 1921.
- HORNADAY, WILLIAM T. The fur trade and the wild animals. Zool. Soc. Bull., vol. 24, pp. 29-52; 21 figs. March, 1921.
- JOHNSON, CHAS. E. Some recent observations on wild life conditions in the Superior Game Refuge. Fins, Feathers and Fur, no. 24, pp. 1-4. December, 1920. (Notes on game and fur-bearing mammals in Minnesota.)
- LAROM, I. H. Elk season—1919 vs. 1920. Outers' Recreation, vol. 64, no. 2, p. 84. February, 1921. (From a letter dated November 19, 1920. Claims a decrease of 40 per cent in the northern elk herd.)
- LAUT, AGNES. The sea otter and land otter. Forest and Stream, vol. 91, pp. 8, 9, 31. January, 1921. (General account of these species and a plea for the preservation of the land otter.)

- LAUT, AGNES. Concerning beaver and nutria. *Forest and Stream*, vol. 91, pp. 57, 88, 89. February, 1921. (History of the trade and description of the fur).
- LECHE, WILHELM. Morphologisch-geographische Formenreihen bei den Säugtieren. *Lunds Univ. Årsskrift*, vol. 16, no. 10, pp. 1-76; 11 figs. 1921.
- LITTLE, C. C. Factors influencing the growth of a transplantable tumor in mice. *Journ. Exper. Zool.*, vol. 31, pp. 307-326. October 5, 1920.
- LODGE, WALTER L. Methods of saving Alaska game. *Forest and Stream*, vol. 91, pp. 156, 157, 188. April, 1921.
- LOVERIDGE, ARTHUR. Notes on East African Mammalia (other than horned ungulates) collected or kept in captivity 1915-1919. Part I. *Journ. East Africa and Uganda Nat. Hist. Soc.*, no. 16, pp. 38-42. February, 1921.
- MARTELLI, GIOVANNI. Contributo alla conoscenza della vita e dei costumi della *Arvicole* in Puglia. *Boll. Lab. Zool. Gen. et Agr. R. Scuola Super. d'Agric.*, in Portici, vol. 13, pp. 193-316. 1919. (Habits and economic status of *Pitymys savii*, *Apodemus sylvaticus*, and *Arvicola musignani*.)
- MCATEE, W. L. The "one-letter" rule for generic names in zoology. *Amer. Nat.*, vol. 55, pp. 89-96. February, 1921. (An able defense of the one-letter rule.)
- MCGUIRE, J. A. In the Alaska-Yukon gamelands. Pp. 1-215; 16 plates. Stewart and Kidd Co., Cincinnati. \$3 net. 1921. (An account of the hunting trip to the White River, Alaska-Yukon boundary, on which the type specimen of *Rangifer mcguirei* Figgins was obtained. Introduction by William T. Hornaday.)
- MILLER, GERRIT S., JR., AND N. HOLLISTER. Descriptions of sixteen new murine rodents from Celebes. *Proc. Biol. Soc. Washington*, vol. 34, pp. 67-76. March 31, 1921. (New: *Echiothrix centroza*, *E. brevicula*, *Rattus musschenbrækii tetricus*, *R. raveni*, *R. r. eurous*, *R. palela*, *R. hoffmanni linduensis*, *R. h. subditivus*, *R. mollicomus*, *R. adpersus*, *R. nigellus*, *R. penitus*, *R. sericatus*, *R. rallus*, *R. hellwaldii localis*, *R. h. cereus*; all collected by H. C. Raven, on expeditions under the direction of Dr. W. L. Abbott, for the Smithsonian Institution.)
- NELSON, E. W. The big game of Alaska. *Bull. Amer. Game. Protective Ass.*, April, 1921. Reprint, pp. 1-7; 6 figs. 1921. (Address before the Seventh National Game Conference, New York City, January, 1921.)
- NORTHCOTE, G. A. S. Baboons attacking children. *Journ. East Africa and Uganda Nat. Hist. Soc.*, no. 16, pp. 60-61. February, 1921.
- PATON, JAMES S. Observations on the grizzly. *Forest and Stream*, vol. 91, pp. 155, 188. April, 1921.
- PECK, ROBERT B. The renaissance of the beaver. *Forest and Stream*, vol. 91, pp. 152-154, 182-187. April, 1921. (Success of introductions in the Adirondacks.)
- POCOCK, R. I. The systematic value of the glans penis in macaque monkeys. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 7, pp. 224-229, 2 figs. March, 1921. (Revives the generic names *Lyssodes*, for *Macaca speciosa* and *M. fuscata*, and *Zati*, for *M. sinica*.)
- A new species of *Bassaricyon*. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 7, pp. 229-234, 2 figs. March, 1921. (Describes *Bassaricyon beddardi* from British Guiana.)

- REAGAN, FRANKLIN P. On the later development of the azygous veins of swine. *Anat. Record*, vol. 17, pp. 111-125; 16 figs. November 20, 1919 (December, 1919).
- ROBERTS, THOMAS S. Zoological Museum of the University of Minnesota. Annual Report. Extract from Report of the President of the University for the fiscal year ending June 30, 1920. 7 pages and 4 plates, unnumbered. 1921. (Half-tones of groups of large mammals.)
- ROBINSON, HERBERT C. Two new Indo-Malayan rats. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 7, pp. 234-236. March, 1921. (New: *Rattus bandahara*, from Kina Balu, Borneo; and *R. panglima*, from Palawan, P. I.)
- ROHWER, S. A. The nomenclature of supergeneric names. *Journ. Washington Acad. Sci.*, vol. 11, pp. 106-109. March 4, 1921.
- RUTLEDGE, ARCHIBALD. The otter: playboy of Nature. *Country Life*, vol. 38, no. 6, pp. 106, 110, 112, 114. October, 1920. (Account of otters in South Carolina.)
- Hunting deer in Dixieland. *Forest and Stream*, vol. 91, pp. 53-56, 91. February, 1921.
- Vendettas of the marsh. *Outlook*, vol. 127, pp. 379-382. March 9, 1921. (Contains notes on habits of the raccoon and white-tailed deer in South Carolina.)
- SHUFELDT, R. W. Woodchucks and porcupines. *Amer. Forestry*, vol. 27, pp. 147-154, 180; figs. 1-15. March, 1921.
- The extermination of mammals. Their economic value; and their great importance to man through the study of their comparative anatomy. *Med. Record*, reprints pp. 1-20. May 7, 1921.
- SOWERBY, ARTHUR DE C. Notes on the East Asiatic members of the species *Sciurus vulgaris*, Linn., with descriptions of two new subspecies. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 7, pp. 249-254. March, 1921. (New: *Sciurus vulgaris coreæ*, Corea; and *S. v. chiliensis*, Chihli, China.)
- STOCKARD, CHARLES R. A remarkable explanation of polyembryony in the armadillo. *Amer. Nat.*, vol. 55, pp. 62-68. February, 1921.
- THOMAS, OLDFIELD. On a new genus and species of shrew, and some new Muridæ from the East-Indian Archipelago. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 7, pp. 243-249. March, 1921. (New genus, *Crossogale*. New species, *Crossogale sumatrana*, Sumatra; *Rattus dominator*, Minahassa, Celebes; *R. bontanus*, South Celebes; *R. marmosurus*, Minahassa, Celebes; *R. dammermani*, Wadjo, Celebes; *R. pestivulus*, Menado, Celebes; *Uromys talaudium*, Talaud Islands.)
- New foxes of the genera *Cerdocyon* and *Pseudalopex* from northern Argentina. *Ann. and Mag. Hist.*, ser. 9, vol. 7, pp. 381-385. April, 1921. (New: *Cerdocyon tecumanus*, *C. thous jucundus*, and *Pseudalopex zorrula*.)
- On the caviés of the genus *Caviella*. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 7, pp. 445-448. May, 1921. (Three new subspecies of *Caviella australis*.)
- New Sigmodon, *Oryzomys*, and *Echimys* from Ecuador. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 7, pp. 448-450. May, 1921.
- TOYCEN, GEORGE. One buck's idea of a one-buck law. *Wisconsin Conservationist*, vol. 3, no. 1, p. 9, March, 1921.

- [VON BURG, G.] Von den schweizerischen Eichhörnchen. Der Weidmann (Bülach-Zürich), Jahrg. 1920, no. 48, p. 387. December 2, 1920. (New name: *Sciurus vulgaris subalpinus*.)
- Schweizerische Wiesel und Hermeline. Der Weidmann, Jahrg. 1920, no. 48, pp. 387-388. December 2, 1920. (New names: *Putorius ermineus alpestris* and *P. e. giganteus*.)
- Das borealen Eichhörnchen. Der Weidmann, Jahrg. 1920, no. 51, p. 408. December 23, 1920. (Further remarks on his *Sciurus vulgaris subalpinus*.)
- Hermeline aus dem oberen Engadin. Der Weidmann, Jahrg. 1920, no. 51, p. 409. December 23, 1920. (The name *Putorius boccamela alpinus* is proposed for the ermine of the upper Engadin.)
- Münstertaler Siebenschläfer. Der Weidmann, Jahrg. 1920, no. 52, p. 419. December 30, 1920. (*Glis glis subalpinus*, provisional name for a specimen of *Glis italicus*.)
- Hausratten. Der Weidmann, Jahrg. 1921, no. 1, p. 7. January 6, 1921. (New name: *Mus rattus jurassicus*.)
- Münstertaler Haselmäuse. Der Weidmann, Jahrg. 1921, no. 3, p. 6. January 20, 1921. (New: *Muscardinus avellanarius mustairensis*.)
- Eine neue Spitzmaus? Der Weidmann, Jahrg. 1921, no. 3, p. 6. January 20, 1921. (New: *Crocidura sufflavidentata*.)
- Hausmäuse aus den oberen Tessintälern. Der Weidmann, Jahrg. 1921, no. 6, p. 5. February 10, 1921. (New: *Mus musculus airolensis*.)
- WARD, HENRY B. The conservation of game and fur-bearing animals. Science, n. s., vol. 53, p. 288. March 25, 1921.
- WRIGHT, SEWALL, and PAUL A. LEWIS. Factors in the resistance of guinea pigs to tuberculosis, with especial regard to inbreeding and heredity. Amer. Nat., vol. 55, pp. 20-50. February, 1921.

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SEPARATE COPIES

To the Editor, Journal of Mammalogy:

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